

MARSHALL STAR

Serving the Marshall Space Flight Center Community

Jan. 29, 2009

Day of Remembrance: Message from the center director

We will never forget...

January 29, our Day of Remembrance, is a solemn day and an important day for the NASA family. By "family," I am including civil servants and contractor employees, citizens who hold America's space program in their hearts and especially the families of those we lost. On January 27, we marked 42 years since the loss of the crew of Apollo 1 during a pre-flight test. The crew of Challenger was lost to us 23 years ago on January 28, and on February 1 we'll mark six years since the loss of Columbia. Each tragic loss has brought home the inherent difficulty of our enterprise and the remarkable heroism of the men and women who serve our nation in its pursuit.

But we miss the transformative power of this day if we fail to apply

the powerful lessons learned from those losses – namely that every one of them could have been prevented. In each case, there were people who raised concerns which, had they been heeded, could have averted tragedy. But in each case, those concerns went unheeded.

In keeping with the spirit of open, honest communication, we are each invested with the power to raise technical issues, and it is our responsibility to do so. If your concerns are not addressed to your satisfaction, use the path of technical appeal to provide sound data and information that support your position. You have my promise that there will be no recrimination and that your views will be treated with courtesy and respect. We owe it to those who made the supreme sacrifice to live the courage of our conviction.

On this Day of Remembrance, we'll pay best tribute to the 17 men and women who have given the last full measure of devotion to America's space program by learning from the mistakes of the past and resolving to do our part, as individuals, to see that they are never again repeated.



Dave King

Dave King
Marshall Center Director

Life Support Node will allow for larger crew

By Dauna Coulter

Node 3, the final connecting node for the International Space Station, will arrive at Kennedy Space Center, Fla., in April.

It is scheduled for delivery to the space station via space shuttle Endeavour's STS-130 mission targeted for launch Dec. 10. This module will ultimately

house the life support equipment necessary to sustain a crew of six.

"Node 3 is the final element that truly allows the space station to perform as it was designed," said Gregg McDaniel, Science & Mission Systems Space Station Vehicle Office manager at the Marshall Space Flight Center. "This new module

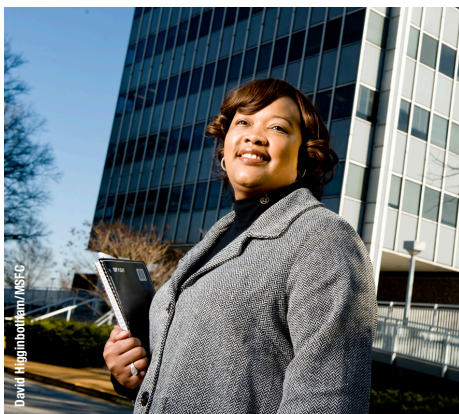
will complete the internal pressurized, or habitable, elements for the space station, and the equipment it houses will be key to increasing the space station crew from three to six members. The node will be equipped with the most advanced life support systems ever flown in space."

See Node 3 on page 4

THE FACE OF MISSION SUCCESS IS:

Iris Rivera

Human resources specialist



- **Organization:** Employee Services & Operations Office, Office of Human Capital
- **Joined NASA:** July 1994
- **Education:** Bachelor's degree, business administration, Faulkner University, Montgomery, Ala., 2004
- **Responsibilities:** Provides human resources support and services to the Office of Strategic Analysis & Communications – including guidance for staffing plans, position classification and employee relations; and maintaining and implementing human capital strategies, policies and practices.
- **2009 goal:** “To take human capital support and service to the next level, helping supervisors continue to increase the effectiveness of their employees so they can achieve NASA’s and Marshall’s mission.”
- **Role model:** Her grandmother, Annie Williams, who taught her the value of character, honesty, integrity and respect.
- **Remembering a significant event:** The loss of space shuttle Columbia in 2003. “Afterward, I saw countless examples of NASA employees pulling together with renewed intensity and passion to return us to flight.”

STS-119 Flight Readiness Review completed

Marshall Center propulsion elements ready to fly

By Lori Meggs

As the crew of space shuttle Discovery continues to prepare for its upcoming STS-119 mission, Marshall Space Flight Center's shuttle propulsion managers participated in the Space Shuttle Program Flight Readiness Review Jan. 21-22 at the Kennedy Space Center, Fla.

“We’re preparing the propulsion elements to meet the targeted launch date of Feb. 12 for the next mission to the International Space Station,” said Steve Cash, manager of Marshall’s Shuttle Propulsion Office.

“We had a very productive review and are pleased with the readiness of the external tank, solid rocket boosters and main engines,” Cash added. “It’s a testament to the hard work of our folks to ensure these elements are prepared for launch.”

Commander Lee Archambault will lead a crew of seven, along with Pilot Tony Antonelli, and mission specialists Joseph Acaba, John Phillips, Steve Swanson, Richard Arnold and Japan Aerospace Exploration Agency astronaut Koichi Wakata, who will replace Expedition 18 Flight Engineer Sandy Magnus on the space station.

The STS-119 crew conducted three days of intense training Jan. 19-21 at Kennedy. The astronauts participated in

the full dress rehearsal called the Terminal Countdown Demonstration Test. The test provided an opportunity for the crew and ground teams to perform various simulated countdown activities, including equipment familiarization and emergency training.

STS-119 is the 28th mission to the space station. Space shuttle Discovery will carry the station’s S6 truss segment – with its large, power-generating solar arrays – to the orbital outpost.

The truss and solar arrays will complete the backbone to the station. The new solar arrays also will provide a quarter of the total power needed to support a crew of six.

On Feb. 3, NASA managers will hold an executive-level Flight Readiness Review to set the official launch date for STS-119’s 14-day mission.

Meggs, an AI Signal Research, Inc. employee, supports the Office of Strategic Analysis & Communications.



The STS-119 crew members at the launch pad at the Kennedy Center, are, from left, mission specialists Richard Arnold and Steve Swanson; Pilot Tony Antonelli; Commander Lee Archambault; and mission specialists Koichi Wakata, John Phillips and Joseph Acaba.

Marshall's Charlie Nola and Boeing Co. honored with NASA Small Business awards

By Jessica Wallace

Marshall Space Flight Center contracting officer technical representative Charlie Nola and the Boeing Company, supporting Ares Projects, recently received two agency-level awards at the first 2008 Small Business Industry and Advocates Awards Ceremony in Washington.

The awards were presented during the first NASA/Jet Propulsion Laboratory Small Business Symposium and Awards Ceremony. Sponsored by NASA's Office of Small Business Programs, the event will be held annually.

The ceremony acknowledged the outstanding contributions of NASA employees and industry representatives in support of the agency's small business programs. Presenting the awards were Shana Dale, then NASA deputy administrator; and Glenn Delgado, NASA assistant administrator for the Office of Small Business Programs.

Nola received the Small Business Technical Support Person of the Year Award for his impact on NASA's mission and the Small Business Program, and for his outstanding support to the Ares I instrument unit avionics contract at Marshall. He is responsible for strategy and coordination of contract changes, contractor performance evaluation, and monitoring and reporting contract activities to projects.

"I was surprised and extremely proud to be selected and recognized," said Nola. "I believe the gracious nomination and the award reflects the accomplishment of the entire Ares I upper stage team, and their commitment



Charlie Nola, center, receives the Small Business Technical Support Person of the Year Award from Shana Dale, left, and Glenn Delgado.

to the agency's small business programs and the small business community."

The Boeing Company was presented with the Agency Level Large Prime Contractor of the Year Award for providing the Marshall Center with outstanding support of small businesses under their Ares I Upper Stage Production subcontracting program. This support will ensure that small businesses play an integral part in the development of the upper stage. James Chilton, vice president of Exploration Launch Systems for Boeing, accepted the award on behalf of the company.

"Small businesses are an important part of Boeing's ability to deliver a quality product to our customer," said Chilton. "The quality and availability of capable small businesses in the Huntsville area have been key as we've expanded our Ares team."

David Brock, Marshall's Small



James Chilton, center, accepts the Agency Level Large Prime Contractor of the Year Award on behalf of the Boeing Company from Dale, left, and Delgado.

Business Specialist said it is people like Nola and companies like Boeing that really make the difference. "Without their support, effective program implementation would not be possible," he said.

The symposium and awards ceremony's theme was "NASA – Where Small Business Can Make a Big Difference." The event was open to industry, academia and domestic small businesses. The symposium provided a forum for representatives from small business to learn about NASA's plan for future missions, and the skills, resources and technologies needed to achieve those missions, programs and research.

For more information about NASA's Office of Small Business Programs, visit <http://osbp.nasa.gov/>.

Wallace, an AI Signal Research Inc. employee and the Marshall Star editor, supports the Office of Strategic Analysis & Communications.

Entries for Earth Day logo contest due by Jan. 30

The Environmental Excellence Team committee is accepting entries for the 2009 Earth Day logo contest through Jan. 30. This year's theme will highlight water stewardship with the slogan "Just

One Drop...PRICELESS."

The contest is open to civil service and contractor employees, as well as their children.

For more information on the rules and

directions for submitting entries, contact Jeremiah Kolb at jeremiah.j.kolb@nasa.gov or 544-6304. For rules and other information, visit <http://eemo.msfc.nasa.gov/environmental/eday/index.asp>.

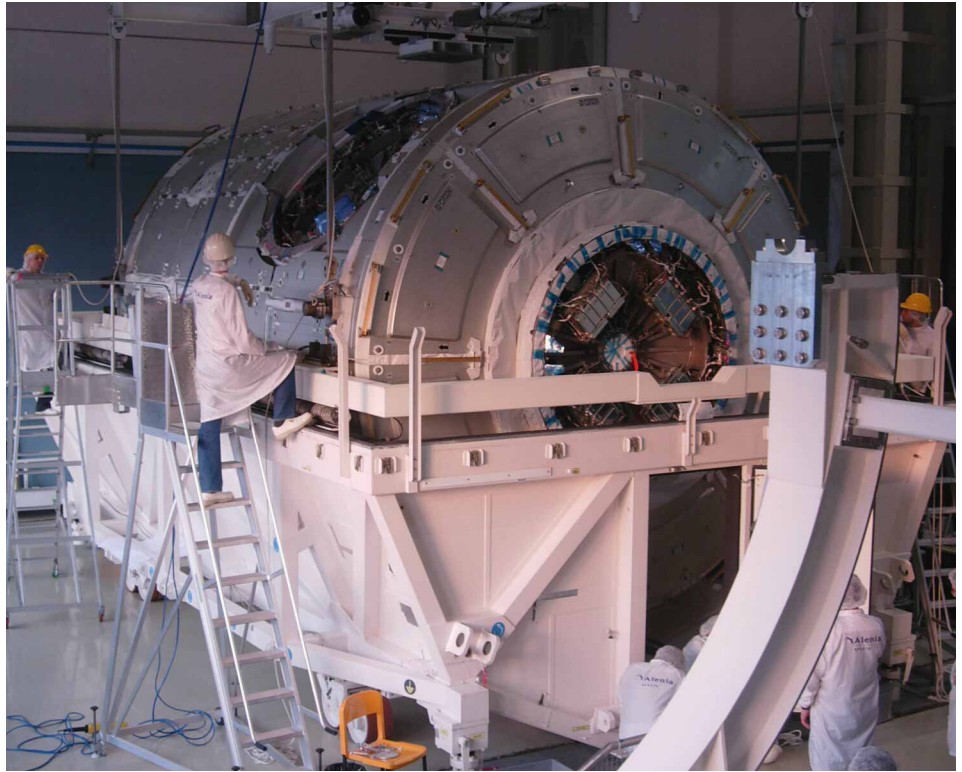
The life support system comprises several Environmental Control and Life Support System racks including an Atmosphere Revitalization System rack, two Water Recovery System racks and an Oxygen Generation System rack. Marshall employees helped develop and manage each of these items, which remove contaminants from the atmosphere, monitor/control the space station atmosphere, recycle wastewater for crew use and generate oxygen for the crew to breathe.

The node will also house two avionics racks, a treadmill and an Advanced Resistive Exercise Device – a device for crew resistance training to help prevent loss of muscle mass in low gravity.

The Cupola, a seven-window observation and control station that provides the crew a 360-degree view around the space station and gives the crew a vantage point from which to perform remote robot arm operations, will be mated to Node 3 at Kennedy for the flight to the space station. The Cupola was built and provided to NASA by the European Space Agency.

“Our nodes work has been rewarding and challenging,” said Jimmy Grisham, Node 3 lead for the Nodes Integration Office at Marshall. “We’ve worked with contractors, international partners and several NASA centers to make this a successful project.”

The Nodes Integration Office at Marshall is the technical interface between the nodes project at Johnson Space Center, the NASA and contractor space station system leads and the



Node 3 was transferred to the airlock on the rotating stand, then lifted from the rotating stand, moved into the container, and lowered into its final position for Element Leak Test at Thales Alenia Space Italy in Turin, Italy.

European Space Agency/Thales Alenia Space Italy. The Nodes Integration Office also manages space station ground support equipment hardware shipments delivered to the European Space Agency/Thales Alenia Space Italy and Kennedy for Node 3 testing and verification.

“Node 3 has been a great partnership between the NASA nodes folks here at Marshall and the element designers/builders in Italy,” said McDaniel. “The launch of Node 3 will be bittersweet for us. We’ve worked hard to get to this point.

We’ll still have work to do with on-orbit operations and spare regenerative ECLSS parts, but Node 3 is the end of Marshall efforts for construction and delivery of major space station elements.”

This final piece has a pressurized volume of about 2,472 cubic feet. It is about 23.175 feet long and 14.353 feet in diameter. Its final weight will be approximately 33,000 pounds.

Coulter, a Schafer Corp. employee, supports the Office of Strategic Analysis & Communications.

MARS Ballroom Dance Club Valentine Dinner Dance to be held Feb. 7



The MARS Ballroom Dance Club Valentine Dinner Dance will be held Feb. 7

at the Von Braun Center East Hall. A social will begin at 6:30 p.m., followed by dinner at 7 p.m. and dancing at 8 p.m. Cost is \$25 for members and \$35 for nonmembers. Deadline to purchase

tickets is close of business Feb. 2. To purchase tickets or for questions, call Gerald Maxwell at 544-1954 or Cindy Williams at 544-2794. For more information, go to “Inside Marshall.”

Volunteers sought for 16th annual NASA Great Moonbuggy Race on April 3-4

Volunteers are still being sought to help student racers aim for the stars at the 16th annual NASA Great Moonbuggy Race, to be held April 3-4 at the U.S. Space & Rocket Center in Huntsville.

According to volunteer coordinator Karla Miller, Marshall team members can still sign up to work the 12-5 p.m. shift each day of the race. Positions

include pre-race qualification, obstacle judging, scorekeeping, race data reporting and start/finish line activities.

Deadline to sign up is Feb. 2. A volunteer meeting will be held March 25 at 3 p.m. at the Space & Rocket Center. All volunteers will receive free T-shirts and lunch on race days.

The Great Moonbuggy Race

challenges high school and college students to design and race lightweight vehicles based on the NASA lunar rovers that traveled the moon during the Apollo-era missions of the early 1970s.

To sign up, visit <https://moonbuggy-volunteer.msfc.nasa.gov/index.cfm>. For more information, e-mail Karla Miller at karla.i.miller@nasa.gov.

Classified Ads

To submit a classified ad to the Marshall Star, go to Inside Marshall, to "Employee Resources," and click on "Employee Ads — Submit Ad." Ads are limited to 15 words, including contact numbers. No sales pitches. Deadline for the next issue, Feb. 5, is 4:30 p.m. Thursday, Jan. 29.

Miscellaneous

Paradigm Reference Studio Series ADP-450 surround speakers, black, left, right, center, \$325 obo. 843-513-7939

Firewood, \$80 per truckload. 755-0050

Horse Ultra Light-Weight Waterproof T/O blankets; 3-70," 1-74," \$50 each. 755-6013

2005 Honda CRF70F motorcycle, \$1,000; girls bicycle, \$50; kids acoustic guitar, \$50. 468-0305

Excell pressure washer, 5.5 HP, Honda motor, spray wand, \$150. 461-6459

Toddler bed, mattress, \$100; crib, \$100; glider rocker, footrest, \$60. 457-0290

18.3 Frigidaire refrigerator, white, top freezer; \$225; paintball auto loader, \$15; paintball mask, \$15. 527-0110

Sony DCR-DVD301 1MP DVD Handycam Camcorder, 10x optical zoom, \$160. 651-7511

Four-channel PA head/mixer, \$30. 205-394-1307

Queen sleigh bed, no mattress, \$100. 536-5132

Queen bedroom suite, dresser with mirror, chest of drawers, two nightstands, \$1,000. 227-6023

Frigidaire Crown Series washing machine, large capacity, white, \$50. 882-3895

Man/Woman engagement, wedding rings, \$1,000;

55-gallon tank, cabinet, accessories for fresh/salt water startup, \$300. 783-4326

Broyhill kitchen hutch, \$395; five-piece indoor wicker set, \$350; two outdoor wicker rockers, \$150. 975-1667

NASCAR Chase Authentics M&M uniform jacket, size XXL, \$50. 772-3303

26.9 side-by-side refrigerator, ice/water dispenser, \$275. 830-9507

5X8 open utility trailer, treated floor, 3,500-pound axle, \$600. 773-5051

Baby Taylor acoustic guitar, deluxe Taylor gig bag, \$200; Hofner bass guitar, \$1,000. 303-3702

Two futon sofa/beds, black, queen, \$150 each. 772-1870

Snow blade, for lawn tractor, \$20. 683-6313

American Bulldog puppies, 5 weeks old, NKC registered, four females, two males. 859-771-0093

Nine-piece Tama drum set, cymbals, hi-hats, thrown, \$750. 851-6425

Entertainment center, two towers, light bridge, shelf, e-mail plamm@meicompany.com for pictures. 832-928-6066

Vehicles

2008 Blue Honda Accord Coupe, black leather, ground effects, V6, multi-CD, iPod, \$26,900. 604-9951

2008 300KBS Keystone travel trailer, 32-feet long, double slide, \$20,950. 233-3407

2007 Mazda3, galaxy gray, 32k miles, \$14,000. 425-3727

2007 Honda Civic SI Coupe, two door, six speed, all power, 21k miles, \$19,300. 931-0077

2006 BMW 325i, white/tan, loaded, 41k miles, \$21,900. 883-6894 or 468-6894

2005 Triton TR21X, 2006 Yamaha 250 HPDI, warranty, MotorGuide, \$29,950 obo. 497-8894 or 729-6781

2005 Ford Five Hundred Limited, AWD, leather, power moon roof, 44k miles, \$13,500. 975-1667

2003 Kawasaki ATV, \$1,800; 1998 Yamaha Warrior 350, \$1,500; 1994 Jeep Wrangler Sahara, \$5,100. 200-1658

1998 Jeep Laredo, 2WD, factory engine replacement, new tires/battery, \$5,000. 509-0991

1997 Lincoln Town Car, loaded, \$3,850. 586-7424 or 486-4716

1996 Corvette, black on black, 25 MPG, 72k miles, \$10,500. 723-8877

1996 Toyota Avalon XLS, 203k miles, \$1,600 obo. 651-2429

1995 Ford F-150 4X4 pickup truck, black, \$3,000; 2002 Ford Expedition, black, 170k miles, \$5,000. 874-7001

1983 Honda Goldwing GL1100, \$1,500. 755-6020

Wanted

Houses/offices to clean, available evenings/weekends, leave message. 777-8595

Electrical work to do, wiring houses, detached garage, adding/removing lights, switches, plugs. 468-8906

Practice partner for ballroom dancing. 533-7234

Moving boxes, all sizes, will pick up. 772-7222

Lost

Coyote sunglasses, black frame, possibly buildings 4600, 4612, 4610, 4203. 303-8499

Obama Administration names interim NASA leadership

From NASA Headquarters

The Obama Administration has announced several interim leadership changes for NASA, which are effective immediately.

Christopher Scolese, NASA's associate administrator, will serve as acting administrator until a successor to Michael Griffin has been nominated by the president and confirmed by the U.S. Senate.

Ronald Spoehel, NASA's chief financial

officer and a political appointee from the previous administration, has been asked to continue in his present position.

Several other posts usually held by political appointees will have acting leaders until the positions are filled by the administration.

Mary D. Kerwin, deputy assistant administrator for the Office of Legislative and Intergovernmental Affairs, will serve as acting chief of the Office of Strategic Communications

and the acting assistant administrator for the Office of Legislative and Intergovernmental Affairs.

Robert Jacobs, deputy assistant administrator for the Office of Public Affairs, will serve as the office's acting assistant administrator.

Kristen Erickson, deputy director of the Communications Planning Division of the Office of Strategic Communications, will serve as the acting division director.

National Conference of State Legislatures' Education Committee tours Marshall

Members of the National Conference of State Legislatures' Education Committee visited the Marshall Space Flight Center on Jan. 9 to learn about the cutting-edge space and science work conducted at the center. At right, committee members and other guests tour the rapid prototyping area of the National Center for Advanced Manufacturing in Building 4707. Thirty-five guests – including state legislators from 18 states, Alabama Department of Education officials and education policy experts – also toured the Payload Operations Center in Building 4663, the upper stage Performance Analysis and Design Demonstrators in Building 4205, and the Collaborative Engineering and Design Analysis Room in Building 4600.



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